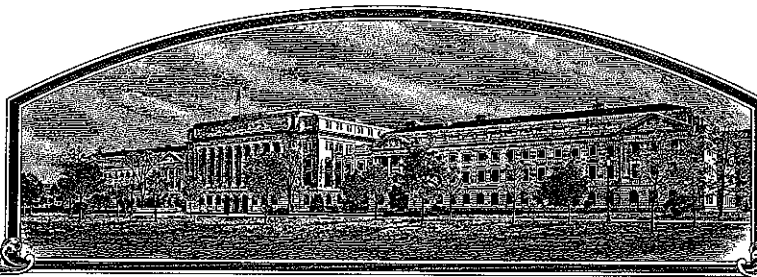


No.

200500211



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Syngenta Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLACEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE APPLICANT(S) TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR OFFERING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT, (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, FIELD

'Floyd'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

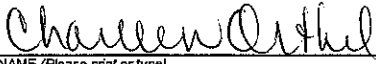
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Syngenta Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME ROG312R		3. VARIETY NAME Floyd	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 600 N. Armstrong Place Boise, ID 83704		5. TELEPHONE (include area code) 208-322-7272		FOR OFFICIAL USE ONLY PVPO NUMBER 200500211 FILING DATE April 15, 2005	
		6. FAX (include area code) 208-327-9319			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION DE		9. DATE OF INCORPORATION February 25, 1975	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Charleen Orthel Syngenta Seeds, Inc. - Vegetables 600 N. Armstrong Place P.O. Box 4188 Boise, ID 83704				FILING AND EXAMINATION FEES: \$ 3652.00 DATE 4/15/2005 CERTIFICATION FEE: \$ 682.00 DATE 8/12/2005	
11. TELEPHONE (Include area code) 208-327-7246		12. FAX (Include area code) 208-327-9319		13. E-MAIL charleen.orthel@syngenta.com	
14. CROP KIND (Common Name) Dry Edible Bean		16. FAMILY NAME (Botanical) Leguminosae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. NA FOUNDATION NA REGISTERED NA CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) Charleen Orthel		NAME (Please print or type)			
CAPACITY OR TITLE Registration Specialist		DATE 14 Apr. 2005		CAPACITY OR TITLE DATE	

(See reverse for instructions and information collection burden statement)

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

(See attached page)

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

200500211

del_deliv_date	mat_material_desc	del_qty_lb	shp_country	shp_state	Purpose
30-Mar-05	DRYB PINK FLOYD	48000	US	ND	Commercial Sale,

Dry Edible Pink Bean

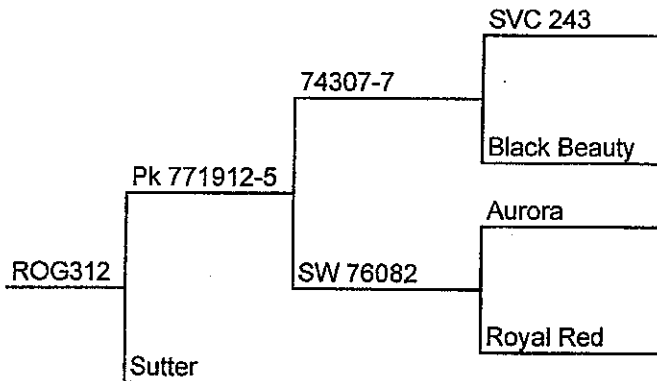
200500211

'ROG312R'

Exhibit A

Origin and Breeding History

The objective in the development of Syngenta Seeds, Inc. 'ROG312R' in the pink market class of dry edible beans was to transfer the Ur11 rust gene from the donor parent 'BelMiNeb-RMR-3' into Syngenta Seeds, Inc. variety 'ROG312' using the backcrossing breeding method. 'ROG312R' was derived from a series of five backcrosses with 'ROG312' as the recurrent parent.



Details of the selection and multiplication are as follows:

Year	Gen.	Season	Plot	No. SPS	Lbs.	Criteria
2000	BC5F1	Winter	00-GH9203-3			Bulk
2000	BC5F2	Summer	00-DB0303	3		SPS's based on pod load, plant architecture, maturity, and seed quality
2000	BC5F3	Fall/Winter	00-GH0303-1			Generation advance & seed increase
2001	BC5F4	Winter/Spring	01-GH0303-1			Generation advance & seed increase
2001	BC5F5	Summer	01-TFRPK03	10	19.3	Yield test & increase
2002	BC5F6	Summer	02-QD2711		754	Seed stock increase

ROG312R has been observed to be uniform and stable since the BC5F3 generation and has remained uniform and stable through the BC5F6. Stock 02-QD2711 is being increased to commercial size quantities. Seed stock will be monitored for purity. No variants have been observed since the BC5F3 generation.

Dry Edible Pink Bean

'ROG312R'

Exhibit B

Novelty Statement

Syngenta Seeds, Inc. variety 'ROG312R' is most like the variety 'ROG312', but differs in the following way:

'ROG312R' has the Ur11 rust gene from the donor parent 'BelMiNeb-RMR-3', 'ROG312' does not. This gene gives 'ROG312R' resistance to all known strains of bean rust, except race 108, whereas 'ROG312' does not have the Ur11 rust gene.

The following chart shows the differences between 'ROG312R' and 'Viva':

Characteristic	Units	ROG312R	Viva	Probability	Sample size
Maturity (90%)	days	84	88	NS	1
Flowering (50%)	days	44	46	NS	1
Plant ht.	cm.	75.8	64.7	0.0001	20
Pod Length	mm.	96.1	103.3	0.0000	20
Beak Length	mm.	8.52	8.29	0.3764	20
Pod Width	mm.	9.5	9.18	0.0578	20
Pod Depth	mm.	12.37	12.42	0.7726	20
Seeds/pod	no.	5.5	5.3	0.2064	20
Vine Length	in.	31.95	29.18	0.1952	19
Seeds/lb.	no.	1,348	1,665	NS	1

- ROG312R is taller than Viva (75.8 vs. 64.7 cm).
- ROG312R has a shorter pod than Viva (96.1 vs. 103.3 mm).
- ROG312R has the Ur11 gene for bean rust resistance whereas Viva has no rust resistance.

Data file: PVP_312R
Title: PVP ROG312R vs. VIVA 2002

200500211

Function: T-TEST

SAMPLE ONE: ROG312R

SAMPLE TWO: VIVA

Variable 1 : Plant Height(cm)

Cases 1 through 20

Mean: 75.75

Variance: 66.72

Standard Deviation: 8.17

Variable 1 : Plant Height(cm)

Cases 21 through 40

Mean: 64.70

Variance: 53.48

Standard Deviation: 7.31

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.2475

Numerator degrees of freedom: 19

Denominator degrees of freedom: 19

Probability: 0.6346

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared: 60.1039

Variance of the difference between the means: 6.0104

Standard Deviation of the difference: 2.4516

t Value: 4.5072

Degrees of freedom: 38

Probability of t: 0.0001

Result: Significant t - Reject the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

11.050 plus or minus 4.963 (6.087 through 16.013)

Data file: **PVP_312R**
Title: PVP ROG312R vs. VIVA 2002

200500211

Function: T-TEST

SAMPLE ONE: ROG312R

SAMPLE TWO: VIVA

Variable 2 : Pod Length(mm)

Cases 1 through 20

Mean: 96.06

Variance: 13.18

Standard Deviation: 3.63

Variable 2 : Pod Length(mm)

Cases 21 through 40

Mean: 103.31

Variance: 20.52

Standard Deviation: 4.53

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.5570

Numerator degrees of freedom: 19

Denominator degrees of freedom: 19

Probability: 0.3429

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared: 16.8470

Variance of the difference between the means: 1.6847

Standard Deviation of the difference: 1.2980

t Value: -5.5857

Degrees of freedom: 38

Probability of t: 0.0000

Result: Significant t - Reject the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):
7.250 plus or minus 2.628 (4.622 through 9.878)

200500211

Data file: ROG312R
Title: ROG31R vs Viva

Function: T-TEST

SAMPLE ONE:

Variable 1 : Vine Length
Cases 1 through 19
Mean: 31.95
Variance: 57.36
Standard Deviation: 7.57

SAMPLE TWO:

Variable 1 : Vine Length
Cases 21 through 39
Mean: 29.18
Variance: 25.92
Standard Deviation: 5.09

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 2.2127
Numerator degrees of freedom: 18
Denominator degrees of freedom: 18
Probability: 0.1009

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared: 41.6404
Variance of the difference between the means: 4.3832
Standard Deviation of the difference: 2.0936
t Value: 1.3198
Degrees of freedom: 36
Probability of t: 0.1952

Result: Non-Significant t - Accept the Hypothesis
Confidence limits for the difference of the means (for
alpha=0.05):
2.763 plus or minus 4.246 (-1.483 through 7.009)

8

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Field Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S) Syngenta Seeds, Inc.	TEMPORARY OR EXPERIMENTAL DESIGNATION ROG312R	VARIETY NAME 'Floyd'
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) 600 N. Armstrong Place Boise, ID 83704		FOR OFFICIAL USE ONLY PVPO NUMBER 2005 00 2 11

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Provide data for all characters unless indicated as "optional". Place numbers in the boxes for the characters or numerical values that best describe this variety. Measured data should be the mean of an appropriate number of well spaced (15-20 cm) plants. The Royal Horticultural Society or any recognized color standard may be used to determine plant color. Designate the color system used below.

COLOR SYSTEM USED:	LOCATION OF THE TEST(S) TO EVALUATE THIS VARIETY: Southern Idaho: Twin Falls
1. MARKET CLASS: <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">7</div> <div> <p><u>CLASS</u></p> <p>1 = Navy (Pea)</p> <p>2 = Small White</p> <p>3 = Black</p> <p>4 = Pinto</p> <p>5 = Great Northern</p> <p>6 = Small Red</p> <p>7 = Pink</p> <p>8 = Cranberry</p> <p>9 = Dark Red Kidney</p> <p>10 = Light Red Kidney</p> <p>11 = Yellow Eye</p> <p>12 = Other (Specify _____)</p> </div> <div style="margin-left: 20px;"> <p><u>CHECK</u></p> <p>Seafarer</p> <p>Aurora</p> <p>Midnight</p> <p>UI-114</p> <p>UI-59</p> <p>NW-59</p> <p>Viva</p> <p>UI-50</p> <p>Montclair</p> <p>Redkloud</p> <p>Steuben</p> </div> </div>	2 = MATURITY: <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">1</div> <div> <p>1 = Early (80-90 days) 2 = Medium (90-100 Days) 3 = Late (> 100 Days)</p> <p><div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">8</div> <div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">4</div> Days from Planting to Harvest Maturity</p> <p><div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"></div> <div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"></div> <div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"></div> Heat Units from Planting to Harvest Maturity (Optional). Specify Base Temperature Used: _____</p> <p><div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">8</div> <div style="border: 1px solid black; display: inline-block; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">8</div> Days from Planting to Harvest Maturity of Check Variety (Use Check Appropriate to Market Class Shown in Item 1)</p> </div> </div>

3. PLANT HABIT:

<p><u>TYPE</u></p> <p><input type="checkbox"/> 1 = Ia Bush-determinate, Strong and Erect Stem and Branches</p> <p><input type="checkbox"/> 2 = Ib Bush-determinate, Weak Stem and Branches</p> <p><input type="checkbox"/> 3 = IIa Erect Growth Habit-indeterminate, Guides (Runners) short or not developed</p> <p><input type="checkbox"/> 4 = IIb Erect Growth Habit-indeterminate, Guides Medium to Long, with no Ability to Climb</p> <p><input checked="" type="checkbox"/> 5 = IIIa Vine-indeterminate, Short Guides with no ability to Climb</p> <p><input type="checkbox"/> 6 = IIIb Vine-indeterminate, Long Guides with Ability to Climb</p> <p><input type="checkbox"/> 7 = IVa Indeterminate Climbing, Pods Distributed Throughout the Plant</p> <p><input type="checkbox"/> 8 = IVb Indeterminate Climbing, Pods Concentrated on the Upper Part of the Plant</p>	<p><div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">7</div> <div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">6</div> Average Height of Mature Plant, in cm.</p> <p><div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">6</div> <div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">5</div> Average Height of Check Variety, in cm. (Use Same Check as Above)</p> <p><div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">3</div> Pod Position: 1 = Low (Lower Pods Touching Soil Surface) 2 = High (Lower Pods not Touching Soil Surface) 3 = Scattered (Not Concentrated High or Low)</p> <p><div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">1</div> Adaptability to Machine Harvest: 1 = Adapted 2 = Not Adapted</p> <p><div style="border: 1px solid black; display: inline-block; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">3</div> Lodging Resistance: 1 = Good 2 = Fair 3 = Poor</p>
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4. LEAFLET MORPHOLOGY: (Use terminal Leaflet of a Fully Expanded Trifoliate)

☐ 2 1 = Smooth 2 = Wrinkled Semi ☐ 1 1 = Dull 2 = Glossy 3 = Semiglossy 4 = Variable

Shape:

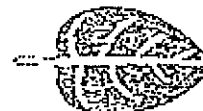
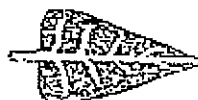
1 = Ovate

2 = Lanceolate

3 = Deltoid

4 = Cordate

5 = Rhomboid

☐ 1

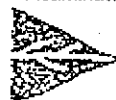
Apex of Leaflet:

1 = Acute

2 = Acuminate

3 = Cuspidate

4 = Obtuse

☐ 2

Base of Leaflet:

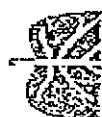
1 = Obtuse

2 = Oblique

3 = Cordate

4 = Cuneate

5 = Attenuate

☐ 1**5. FLOWER COLOR AND DAYS TO BLOOM:**☐ 1

Color of Standard:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 1

Color of Keel:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 1

Color of Wings:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 4

Days to 50% Bloom

6. POD MORPHOLOGY: (Green Pod Morphology Optional)

Green Mature

☐ 1☐ 1

Color Pattern:

1 = Solid

2 = Striped

3 = Blotched

4 = Mottled

5 = Other _____

☐ 3☐ 5

Primary Color:

1 = Purple

2 = Red

3 = Green

4 = Yellow

5 = Tan

6 = Brown

7 = Other _____

☐ 2☐ 3

Color Modifier:

1 = Light

2 = Light Medium

3 = Medium

4 = Medium Dark

5 = Dark

☐ NA☐ NA

Secondary Color:

1 = Purple

2 = Red

3 = Green

4 = Yellow

5 = Tan

6 = Brown

7 = Other _____

☐ 1☐ 1

Cross Section Shape:

1 = Flat

2 = Pear

3 = Round

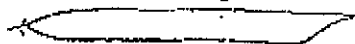
4 = Figure Eight

☐ 2☐ 2

Pod Curvature

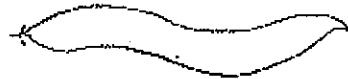
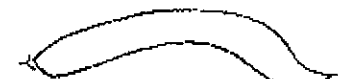
1 = Straight

2 = Slightly Curved



3 = Curved

4 = Recurved

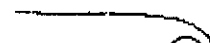
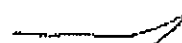
☐ 1☐ 1Pod Beak Orientation:
Few curved downward

1 = Straight

2 = Curved Upward

3 = Curved Downward

4 = Variable

Average Beak Length,
in cm. .852☐ 2☐ 3

Constrictions:

1 = None

2 = Slight

3 = Deep

☐ 5☐ 5

Average Number of Seeds per Pod

13. COMMENTS:

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Dry Edible Pink Bean

'ROG312R'

Exhibit D

Botanical Description

Dry edible pink bean 'ROG312R' is a early season variety that matures in 84 days in Idaho. It has a medium vine plant habit(type IIIa, CIAT classification) and flowers in 44 days. It has good branching and pod set is scattered up the plant.

The leaves are semi-wrinkled, dull, ovate with acuminate apices, and mostly obtuse leaf bases.

Flowers are white, and pods are green which turn tan at maturity.

The seeds are cuboid in shape, pink in color and average 34 g per 100 seeds.

ROG312R has pods averaging 96 mm in length and 5.5 seeds per pod.

ROG312R is susceptible to all Bean Common Mosaic Virus strains.

ROG312R is resistant to all races of Bean Rust except race 108.

ROG312R is adapted to the growing areas of Idaho, North Dakota and Manitoba, Canada.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Syngenta Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER ROG312R	3. VARIETY NAME Floyd
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 600 N. Armstrong Place Boise, ID 83704	5. TELEPHONE (Include area code) 208-322-7272	6. FAX (Include area code) 208-327-9319
7. PVPO NUMBER 200500211		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

The dry edible small red bean ROG312R was bred and developed by plant breeders employed by Syngenta Seeds, Inc. By agreement between the employee and Syngenta Seeds, Inc. all rights to any invention, discovery, or development made by the employee while employed by Syngenta Seeds, Inc. were assigned to Syngenta Seeds, Inc. with no rights retained by the employee.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.